ELSEVIER

Journal of Organometallic Chemistry 549 (1997) 323–324

Journal of Organometallic Chemistry

Author Index of Volume 549

Abe, M., 117
Alvarez-Toledano, C., 49
Antelmann, B., 139
Araki, S., 305
Arsenyan, P., 163
Ashton, P.R., 233
Aumann, R., 311

Baker, P.K., 193
Beck, W., 245
Belyakov, S., 163
Belyakova, O.A., 55
Bendikov, M., 39
Bentele, H.-J., 245
Bernès, S., 49
Bolm, C., 275
Burns, R.M., 89
Butcher, R.J., 73

Chui, K., 239
Cifuentes, M.P., 127
Clark, A.I., 193
Corruble, A., 81

Dal Colle, M., 149
De los Ríos, I., 221
Derrien, N., 275
Ding, H., 319
Distefano, G., 149
Drew, M.G.B., 193
Durrant, M.C., 193

Edelmann, F.T., 101
Einstein, F.W.B., 105
Eisen, M.S., 39
Enders, M., 251

Ferrand, V., 263, 275
Fischer, R.D., 203
Fischer, R.W., 319
Frenzen, G., 39
Fressigné, C., 81
Fröhlich, R., 311

Galuzina, T.V., 55
Gambs, C., 275
García-Mellado, O., 49
Gibbons, M.N., 187
Giessner-Prettre, C., 81
Golovaneva, I.F., 55
Guan, J., 203
Gubin, S.P., 55

Elsevier Science S.A.

Gutiérrez, E., 167
Gutiérrez-Pérez, R., 49

Haider, J.J., 319
Haiduc, I., 187
Hakala, K., 177
Hamor, T.A., 233, 257
He, H.-Y., 25
Heard, P.J., 295
Heath, G.A., 127
Hernández-Ortega, S., 49
Herrmann, W.A., 319
Hirashita, T., 305
Hitchcock, P.B., 1
Hockless, D.C.R., 127
Houbrechts, S., 127
Humphrey, M.G., 127
Hung, J.-T., 155
Huttner, G., 139
Hwu, J.R., 155

Iglesias, M., 213
Ignatyev, I.S., 45
Inoue, S., 305
Isobe, K., 117

Jain, V.K., 73
Jany, G., 177
Jiménez Tenorio, M., 221
Jones, C.J., 233

Kawai, M., 305
Klinga, M., 177
Klyagina, A.P., 55
Kochina, T.A., 45
Kong, X.-F., 25
Krannich, L.K., 31
Kratzer, R.M., 319
Krause Bauer, J., 89
Kühn, F.E., 319
Kumaresan, S., 155

Lake, C.H., 31
Lappert, M.F., 1
Lee, F.-Y., 155
Leong, W.K., 105
Leskelä, M., 177
Li, G.Q., 89
Lin, Y., 95
Liu, S., 283
Liu, Z., 239

Lu, K.-L., 155
Lukevics, E., 163
Luther-Davies, B., 127

Mack, H., 39
Maddaluno, J., 81
Majeed, Z., 257
Mak, T.C.W., 239
Male, J.L., 105
Mandal, S.K., 89
McQuillan, F.S., 233
McWhinnie, W.R., 257
Merzweiler, K., 263
Modelli, A., 149
Motoyama, I., 13
Müller, J.F.K., 283

Narayan, S., 73
Neuburger, M., 283
Nicasio, M.C., 167
Nishioka, T., 117

Orchin, M., 89

Paneque, M., 167
Pascu, S., 187
Pauson, P.L., 199
Persoons, A., 127
Polamo, M., 177
Polyakova, L.A., 55
Pomeroy, R.K., 105
Popelis, J., 163
Poremba, P., 101
Powell, D.H., 31
Pritzkow, H., 251
Puerta, M.C., 221

Qi, M., 95

Repo, T., 177
Rheinwald, G., 263
Richards, R.L., 193
Rieger, B., 177
Rudolph, R., 251
Ruiz, C., 167

Salazar, V., 167
Samoc, M., 127
Santos, A., 213
Sato, M., 13
Scagnolari, F., 149

Schaffner, S., 283
Schauer, S.J., 31
Shen, Q., 95, 203
Silaghi-Dumitrescu, I., 187
Silaghi-Dumitrescu, L., 187
Slovokhotov, Yu.L., 55
Song, S., 95
Sowerby, D.B., 187
Spicer, M.D., 199
Stoeckli-Evans, H., 263, 275
Sun, J., 25, 239
Sünkel, K., 245
Süss-Fink, G., 263, 275
Suzuki, T., 117

Takayama, T., 13
Tanna, R., 233
Tian, S., 1
Tocher, D.A., 295
Tolley, M.S., 233
Tyler, D.R., 105

Valerga, P., 221
Valnot, J.-Y., 81
Vogelgesang, J., 139
Vrazhnov, D.V., 45

Walter, O., 139
Wang, J.-T., 25
Watanabe, M., 13
Watkins, C.L., 31
Wen, Y.-S., 155
Whittall, I.R., 127
Winterhalter, U., 139

Xi, R., 117
Xie, Z., 239
Xu, Y.-M., 25
Xue, F., 239

Yamamura, H., 305
Yu, Z., 311

Zehnder, M., 283
Zhang, L., 95
Zhang, Z., 239
Zubavichus, Ya.V., 55

ELSEVIER

Journal of Organometallic Chemistry 549 (1997) 325–331

Journal of Organometallic Chemistry

Subject Index of Volume 549

Acetylacetonate complexes
Synthesis and crystal structures of the distorted pentagonal bipyramidal seven-coordinate acetylacetonate complexes [MI(acac)-$(CO)_2(PEt_3)_2$] (M = Mo or W) (P.K. Baker, A.I. Clark, M.G.B. Drew, M.C. Durrant and R.L. Richards), 193

Acetylide
Organometallic complexes for nonlinear optics. X. Molecular quadratic and cubic hyperpolarizabilities of systematically varied (cyclopentadienyl)bis(phosphine)ruthenium σ-arylacetylides: X-ray crystal structure of Ru((*E*)-4,4′-C ≡ $CC_6H_4CH{=}CHC_6H_4NO_2$)$(PPh_3)_2(\eta$-$C_5H_5)$ (I.R. Whittall, M.P. Cifuentes, M.G. Humphrey, B. Luther-Davies, M. Samoc, S. Houbrechts, A. Persoons, G.A. Heath and D.C.R. Hockless), 127

Alkyne complexes
The action of lithium perchlorate in ether on (allyl propargyl ether) hexacarbonyldicobalt complexes (P.L. Pauson and M.D. Spicer), 199

Alkynes
Carbon–carbon coupling reactions on triruthenium clusters: synthesis and structure of $Ru_3(CO)_9[\mu_3{-}\eta^3$-PhCCCC(H)Ph][$\mu_2$-NS(O)MePh] and $Ru_3(\mu_2$-CO)$(CO)_7[\mu_3{-}\eta^3$-PhCCCC(H)Ph][μ_3-NS(O)MePh] (V. Ferrand, C. Gambs, N. Derrien, C. Bolm, H. Stoeckli-Evans and G. Süss-Fink), 275

Triruthenium clusters containing vinyl ligands: synthesis and structure of $Ru_3(\mu_2$-CO$)_2(CO)_6[\mu_3$-NS(O)MePh]$(\mu_2{-}\eta^1,\eta^2$-$PhCH_2C{=}CH_2)$, $Ru_3(\mu_2$-CO$)(CO)_7[\mu_3$-NS(O)MePh]$(\mu_3{-}\eta^1,\eta^2$-$Pr^nC{=}CHPr^n)$, $Ru_3(\mu_2$-CO$)(CO)_7[\mu_3$-NS(O)MePh]$(\mu_3{-}\eta^1,\eta^2$-$PhC{=}CHBu^n)$, and $(\mu_2$-H$)Ru_3(CO)_6(\mu_2{-}\eta^1,\eta^2$-$PhC{=}CHPh)(\mu_3{-}\eta^1,\eta^2$-$PhC{\equiv}CPh)$ [$\mu_3{-}\eta^1,\eta^2$-NS(O)Me(C_6H_4)] (V. Ferrand, K. Merzweiler, G. Rheinwald, H. Stoeckli-Evans and G. Süss-Fink), 263

Alkynol
The interaction of [Cp*RuCl(dippe)] and [CpRuCl(dippe)] with alkynols: hydroxyvinylidene, allenylidene and related derivatives (dippe = 1,2-bis(diisopropylphosphino)ethane) (I. De los Ríos, M. Jiménez Tenorio, M.C. Puerta and P. Valerga), 221

(1-Alkynyl)carbene complexes
Organic syntheses via transition metal complexes, XCl[1]. Dihydropyridinyl carbene complexes by [4 + 2] annulation of alkenyl- or aryl imines to (1-alkynyl)carbene complexes of chromium and tungsten (R. Aumann, Z. Yu and R. Fröhlich), 311

Alkynyl
Organometallic complexes for nonlinear optics. X. Molecular quadratic and cubic hyperpolarizabilities of systematically varied (cyclopentadienyl)bis(phosphine)ruthenium σ-arylacetylides: X-ray crystal structure of Ru((*E*)-4,4′-C ≡ $CC_6H_4CH{=}CHC_6H_4NO_2$)$(PPh_3)_2(\eta$-$C_5H_5)$ (I.R. Whittall, M.P. Cifuentes, M.G. Humphrey, B. Luther-Davies, M. Samoc, S. Houbrechts, A. Persoons, G.A. Heath and D.C.R. Hockless), 127

Allenylidene complex
The interaction of [Cp*RuCl(dippe)] and [CpRuCl(dippe)] with alkynols: hydroxyvinylidene, allenylidene and related derivatives (dippe = 1,2-bis(diisopropylphosphino)ethane) (I. De los Ríos, M. Jiménez Tenorio, M.C. Puerta and P. Valerga), 221

Allylic alcohol
High γ-selectivity in the coupling of penta-2,4-dienyl- and pent-2-en-4-ynylindium reagents with aldehydes (T. Hirashita, S. Inoue, H. Yamamura, M. Kawai and S. Araki), 305

Allyl propargylic ethers
The action of lithium perchlorate in ether on (allyl propargyl ether) hexacarbonyldicobalt complexes (P.L. Pauson and M.D. Spicer), 199

Aminogallane
Synthesis and characterization of a series of aminogallanes, $[Me_2GaR]_2$. The crystal structures of $[Me_2GaN(CH_2Ph)_2]_2$ and $[Me_2GaN(CH_2CH_2)_2NMe]_2$ (S.J. Schauer, C.H. Lake, C.L. Watkins, L.K. Krannich and D.H. Powell), 31

α-pyrone
Synthesis of a new iron tricarbonyl (η^4)-α-pyrone complex by reaction of iron vinyldiketone complexes with methyllithium under a CO atmosphere (C. Alvarez-Toledano, S. Hernández-Ortega, S. Bernès, R. Gutiérrez-Pérez and O. García-Mellado), 49

1,3-Bis(trimethylsilyl)-1-aza-allyls
Synthesis, characterisation and reactions of 1,3-bis(trimethylsilyl)-1-aza-allyl-lanthanide complexes; X-ray structures of $[Sm(LL')_2I(thf)]$, $[Yb(LL')_2]$ and $[RN{=}C(Bu^t)CH(R)]_2$ (thf = tetrahydrofuran, LL′ = η^3-N(R)C(Bu^t)CHR, R=$SiMe_3$) (P.B. Hitchcock, M.F. Lappert and S. Tian), 1

Bond length
1-Fluorogermatrane—germatrane with the shortest intramolecular N → Ge bond (E. Lukevics, S. Belyakov, P. Arsenyan and J. Popelis), 163

Carbene complexes
Organic syntheses via transition metal complexes, XCl[1]. Dihydropyridinyl carbene complexes by [4 + 2] annulation of alkenyl- or aryl imines to (1-alkynyl)carbene complexes of chromium and tungsten (R. Aumann, Z. Yu and R. Fröhlich), 311

Carbon–carbon coupling
Carbon–carbon coupling reactions on triruthenium clusters: synthesis and structure of $Ru_3(CO)_9[\mu_3{-}\eta^3$-PhCCCC(H)Ph][$\mu_2$-NS(O)MePh] and $Ru_3(\mu_2$-CO$)(CO)_7[\mu_3{-}\eta^3$-PhCCCC(H)Ph][μ_3-NS(O)MePh] (V. Ferrand, C. Gambs, N. Derrien, C. Bolm, H. Stoeckli-Evans and G. Süss-Fink), 275

Carbon nucleophile
Proton sponge as a carbon nucleophile, addition to a putative carbocation linked to a dicarbacobaltaborane cage (F.S. McQuillan, T.A. Hamor, R. Tanna, P.R. Ashton, M.S. Tolley and C.J. Jones), 233

Carbonyl chromium complexes
Hydrocarbon bridged metal complexes: XLII. Addition of aniline tricarbonyl chromium complexes to the dienyl ligands of $[(\eta^5$-$H_3CC_5H_5CH_3)Fe(CO)_3]^+$ and $[(\eta^5$-$C_5H_6CH_3)Fe(CO)_3]^+$ (H.-J. Bentele, K. Sünkel and W. Beck), 245

Elsevier Science S.A.

Carbonyl iron complexes
Hydrocarbon bridged metal complexes: XLII. Addition of aniline tricarbonyl chromium complexes to the dienyl ligands of $[(\eta^5\text{-}H_3CC_5H_5CH_3)Fe(CO)_3]^+$ and $[(\eta^5\text{-}C_5H_6CH_3)Fe(CO)_3]^+$ (H.-J. Bentele, K. Sünkel and W. Beck), 245
Catalysis
Metallocene dichlorides bearing acenaphthyl substituted cyclopentadienyl rings: preparation and polymerization behavior (T. Repo, G. Jany, K. Hakala, M. Klinga, M. Polamo, M. Leskelä and B. Rieger), 177
Chloride
Systematic studies on the reactions of lanthanide trichlorides with Na[1,3-bis(trimethylsilyl)cyclopentadienyl]. Crystal structures of $[1,3\text{-}(Me_3Si)_2C_5H_3]_3Ln$ (Ln = La, Nd, Gd, Dy) (Z. Xie, K. Chui, Z. Liu, F. Xue, Z. Zhang, T.C.W. Mak and J. Sun), 239
Chromium and tungsten complexes
Organic syntheses via transition metal complexes, XCl[1]. Dihydropyridinyl carbene complexes by [4 + 2] annulation of alkenyl- or aryl imines to (1-alkynyl)carbene complexes of chromium and tungsten (R. Aumann, Z. Yu and R. Fröhlich), 311
Clusters
Carbon–carbon coupling reactions on triruthenium clusters: synthesis and structure of $Ru_3(CO)_9[\mu_3\text{-}\eta^3\text{-}PhCCCC(H)Ph][\mu_2\text{-}NS(O)MePh]$ and $Ru_3(\mu_2\text{-}CO)(CO)_7[\mu_3\text{-}\eta^3\text{-}PhCCCC(H)Ph][\mu_3\text{-}NS(O)MePh]$ (V. Ferrand, C. Gambs, N. Derrien, C. Bolm, H. Stoeckli-Evans and G. Süss-Fink), 275
Triruthenium clusters containing vinyl ligands: synthesis and structure of $Ru_3(\mu_2\text{-}CO)_2(CO)_6[\mu_3\text{-}NS(O)MePh](\mu_2\text{-}\eta^1,\eta^2\text{-}PhCH_2C{=}CH_2)$, $Ru_3(\mu_2\text{-}CO)(CO)_7[\mu_3\text{-}NS(O)MePh](\mu_3\text{-}\eta^1,\eta^2\text{-}Pr^nC{=}CHPr^n)$, $Ru_3(\mu_2\text{-}CO)(CO)_7[\mu_3\text{-}NS(O)MePh](\mu_3\text{-}\eta^1,\eta^2\text{-}PhC{=}CHBu^n)$, and $(\mu_2\text{-}H)Ru_3(CO)_6(\mu_2\text{-}\eta^1,\eta^2\text{-}PhC{=}CHPh)(\mu_3\text{-}\eta^1,\eta^2\text{-}PhC{\equiv}CPh)[\mu_3\text{-}\eta^1,\eta^2\text{-}NS(O)Me(C_6H_4)]$ (V. Ferrand, K. Merzweiler, G. Rheinwald, H. Stoeckli-Evans and G. Süss-Fink), 263
Cobalt
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55
The action of lithium perchlorate in ether on (allyl propargyl ether) hexacarbonyldicobalt complexes (P.L. Pauson and M.D. Spicer), 199
Crystals
The synthesis of novel bridging cyclopentadienyl W–Sn(IV) bonded bimetallic complexes. Crystal structure of $Cl_3SnMo(CO)_3C_5H_4(CH_3)C{=}N{-}NHC_6H_3(NO_2)_2$ and μ-$[C_5H_4(CH_3)C{=}N{-}N(CO)Ph]W(CO)_3SnCl_2\cdot(EtOH)_2$ (J.-T. Wang, H.-Y. He, Y.-M. Xu, J. Sun and X.-F. Kong), 25
Crystal structure
Conversion of a manganese–carbon-bonded complex to a manganese–oxygen-bonded complex, some reactions of manganese carbonato complexes (G.Q. Li, R.M. Burns, S.K. Mandal, J. Krause Bauer and M. Orchin), 89
Crystal structure, conformational diversity and solution NMR spectroscopy of four tris(indenyl)lanthanoid(III)tetrahydrofuran adducts: $[Ln(C_9H_7)_3\cdot THF]$ (Ln = La, Pr, Nd, Sm) (J. Guan, Q. Shen and R.D. Fischer), 203
Proton sponge as a carbon nucleophile, addition to a putative carbocation linked to a dicarbacobaltaborane cage (F.S. McQuillan, T.A. Hamor, R. Tanna, P.R. Ashton, M.S. Tolley and C.J. Jones), 233
Synthesis and characterization of cyclometallated palladium(II) dithiolate complexes of the type [Pd(E^C)(S^S)] (S. Narayan, V.K. Jain and R.J. Butcher), 73
Synthesis, characterisation and reactions of 1,3-bis(trimethylsilyl)-1-aza-allyl-lanthanide complexes; X-ray structures of $[Sm(LL')_2I(thf)]$, $[Yb(LL')_2]$ and $[RN{=}C(Bu^t)CH(R)]_2$ (thf = tetrahydrofuran, LL' = η^3-N(R)C(Bu[t])CHR, R=$SiMe_3$) (P.B. Hitchcock, M.F. Lappert and S. Tian), 1
Systematic studies on the reactions of lanthanide trichlorides with Na[1,3-bis(trimethylsilyl)cyclopentadienyl]. Crystal structures of $[1,3\text{-}(Me_3Si)_2C_5H_3]_3Ln$ (Ln = La, Nd, Gd, Dy) (Z. Xie, K. Chui, Z. Liu, F. Xue, Z. Zhang, T.C.W. Mak and J. Sun), 239
Crystal structures
Carbon–carbon coupling reactions on triruthenium clusters: synthesis and structure of $Ru_3(CO)_9[\mu_3\text{-}\eta^3\text{-}PhCCCC(H)Ph][\mu_2\text{-}NS(O)MePh]$ and $Ru_3(\mu_2\text{-}CO)(CO)_7[\mu_3\text{-}\eta^3\text{-}PhCCCC(H)Ph][\mu_3\text{-}NS(O)MePh]$ (V. Ferrand, C. Gambs, N. Derrien, C. Bolm, H. Stoeckli-Evans and G. Süss-Fink), 275
Synthesis and crystal structures of the distorted pentagonal bipyramidal seven-coordinate acetylacetonate complexes $[MI(acac)(CO)_2(PEt_3)_2]$ (M = Mo or W) (P.K. Baker, A.I. Clark, M.G.B. Drew, M.C. Durrant and R.L. Richards), 193
Triruthenium clusters containing vinyl ligands: synthesis and structure of $Ru_3(\mu_2\text{-}CO)_2(CO)_6[\mu_3\text{-}NS(O)MePh](\mu_2\text{-}\eta^1,\eta^2\text{-}PhCH_2C{=}CH_2)$, $Ru_3(\mu_2\text{-}CO)(CO)_7[\mu_3\text{-}NS(O)MePh](\mu_3\text{-}\eta^1,\eta^2\text{-}Pr^nC{=}CHPr^n)$, $Ru_3(\mu_2\text{-}CO)(CO)_7[\mu_3\text{-}NS(O)MePh](\mu_3\text{-}\eta^1,\eta^2\text{-}PhC{=}CHBu^n)$, and $(\mu_2\text{-}H)Ru_3(CO)_6(\mu_2\text{-}\eta^1,\eta^2\text{-}PhC{=}CHPh)(\mu_3\text{-}\eta^1,\eta^2\text{-}PhC{\equiv}CPh)[\mu_3\text{-}\eta^1,\eta^2\text{-}NS(O)Me(C_6H_4)]$ (V. Ferrand, K. Merzweiler, G. Rheinwald, H. Stoeckli-Evans and G. Süss-Fink), 263
Cyclooctatetraenyl ligands
Cyclooctatetraenyl complexes of the early transition metals and lanthanides. IX. (Cyclooctatetraenyl)lanthanide diazadiene complexes (P. Poremba and F.T. Edelmann), 101
Cyclopentadienyl
Systematic studies on the reactions of lanthanide trichlorides with Na[1,3-bis(trimethylsilyl)cyclopentadienyl]. Crystal structures of $[1,3\text{-}(Me_3Si)_2C_5H_3]_3Ln$ (Ln = La, Nd, Gd, Dy) (Z. Xie, K. Chui, Z. Liu, F. Xue, Z. Zhang, T.C.W. Mak and J. Sun), 239
The synthesis of novel bridging cyclopentadienyl W–Sn(IV) bonded bimetallic complexes. Crystal structure of $Cl_3SnMo(CO)_3C_5H_4(CH_3)C{=}N{-}NHC_6H_3(NO_2)_2$ and μ-$[C_5H_4(CH_3)C{=}N{-}N(CO)Ph]W(CO)_3SnCl_2\cdot(EtOH)_2$ (J.-T. Wang, H.-Y. He, Y.-M. Xu, J. Sun and X.-F. Kong), 25
DFT
Ab initio theoretical study of 3-aminopyrrolidines lithium amides as chiral ligands for butyllithium (C. Fressigné, A. Corruble, J.-Y. Valnot, J. Maddaluno and C. Giessner-Prettre), 81
Diazadiene ligands
Cyclooctatetraenyl complexes of the early transition metals and lanthanides. IX. (Cyclooctatetraenyl)lanthanide diazadiene complexes (P. Poremba and F.T. Edelmann), 101
Dibenzoylethylene
Synthesis of a new iron tricarbonyl (η^4)-α-pyrone complex by reaction of iron vinyldiketone complexes with methyllithium under a CO atmosphere (C. Alvarez-Toledano, S. Hernández-Ortega, S. Bernès, R. Gutiérrez-Pérez and O. García-Mellado), 49
Dihydropyridine
Organic syntheses via transition metal complexes, XCl[1]. Dihydropyridinyl carbene complexes by [4 + 2] annulation of alkenyl- or aryl imines to (1-alkynyl)carbene complexes of chromium and tungsten (R. Aumann, Z. Yu and R. Fröhlich), 311
Diorganoarsenic(V) compound
The first oxygen-bridged diorganoarsenic(V) compound: the crystal structure of $AsMe_2(S)OAs(S)Me_2$ (L. Silaghi-Dumitrescu, S. Pascu, I. Silaghi-Dumitrescu, I. Haiduc, M.N. Gibbons and D.B. Sowerby), 187

Dithiophosphate
Synthesis and characterization of cyclometallated palladium(II) dithiolate complexes of the type [Pd(E^C)(S^S)] (S. Narayan, V.K. Jain and R.J. Butcher), 73
Donor ligands
Chirale Titan- und Zirkoniumkomplexe mit dem 1-(8-Chinolyl)-2,3-dimethylcyclopentadienyl-Liganden (M. Enders, R. Rudolph und H. Pritzkow), 251

Ethene
Metallocene dichlorides bearing acenaphthyl substituted cyclopentadienyl rings: preparation and polymerization behavior (T. Repo, G. Jany, K. Hakala, M. Klinga, M. Polamo, M. Leskelä and B. Rieger), 177

1-Fluorogermatrane
1-Fluorogermatrane—germatrane with the shortest intramolecular N → Ge bond (E. Lukevics, S. Belyakov, P. Arsenyan and J. Popelis), 163
Fullerenepolydiphenylphosphite
Synthesis of polydiphenylphosphite derivatives of [60]fullerene and their reactions with metal complexes (M. Iglesias and A. Santos), 213
Fullerenol
Synthesis of polydiphenylphosphite derivatives of [60]fullerene and their reactions with metal complexes (M. Iglesias and A. Santos), 213
Functionalized cyclopentadienyl
Tripod-Liganden mit Cyclopentadienyl-Donorgruppe: Synthese und Reaktivität von Komplexen des Typs $CH_3C(CH_2\text{-}\eta^5\text{-}C_5H_4)(CH_2PR_2)(CH_2PR'_2)FeCl$ (B. Antelmann, G. Huttner, J. Vogelgesang, O. Walter und U. Winterhalter), 139

Germatrane
1-Fluorogermatrane—germatrane with the shortest intramolecular N → Ge bond (E. Lukevics, S. Belyakov, P. Arsenyan and J. Popelis), 163
Gold
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55

Halgenotrimethylplatinum(IV) metal moiety
Synthesis and detailed NMR study of tricarbonylrhenium(I) and trimethylplatinum(IV) halide complexes of 2-methylthiomethyl-4-(S)-methyl-1,3-oxazoline (L). X-ray crystal structure of *fac*-$[ReBr(CO)_3L]$ (P.J. Heard and D.A. Tocher), 295
Halides
Observations on the synthesis and chemistry of a complete series of phenylazophenyl(C,*N'*)tellurium(II) halides (fluoride, chloride, bromide and iodide) (Z. Majeed, W.R. McWhinnie and T.A. Hamor), 257
Halogenopentacarbonylrhenium metal moiety
Synthesis and detailed NMR study of tricarbonylrhenium(I) and trimethylplatinum(IV) halide complexes of 2-methylthiomethyl-4-(S)-methyl-1,3-oxazoline (L). X-ray crystal structure of *fac*-$[ReBr(CO)_3L]$ (P.J. Heard and D.A. Tocher), 295
η^3-1,3-dimethylallyl
Crystallographic studies of {η^3-1,3-dimethylallyl}{2-[2'-(diphenylphosphino)phenyl]oxazoline-P,N} palladium(II) hexafluorophosphates complexes complemented by ^1H NMR investigations (S. Liu, J.F.K. Müller, M. Neuburger, S. Schaffner and M. Zehnder), 283
Hexamethyldisilazane
Radiochemical study of the reactions between the methyl cation and hexamethyldisilazane (T.A. Kochina, D.V. Vrazhnov and I.S. Ignatyev), 45
Hydrazone
The synthesis of novel bridging cyclopentadienyl W–Sn(IV) bonded bimetallic complexes. Crystal structure of $Cl_3SnMo(CO)_3C_5H_4(CH_3)C{=}N{-}NHC_6H_3(NO_2)_2$ and μ-$[C_5H_4(CH_3)C{=}N{-}N(CO)Ph]W(CO)_3SnCl_2 \cdot (EtOH)_2$ (J.-T. Wang, H.-Y. He, Y.-M. Xu, J. Sun and X.-F. Kong), 25
Hydrogen bond
Proton sponge as a carbon nucleophile, addition to a putative carbocation linked to a dicarbacobaltaborane cage (F.S. McQuillan, T.A. Hamor, R. Tanna, P.R. Ashton, M.S. Tolley and C.J. Jones), 233
Hydrolysis
Conversion of a manganese–carbon-bonded complex to a manganese–oxygen-bonded complex, some reactions of manganese carbonato complexes (G.Q. Li, R.M. Burns, S.K. Mandal, J. Krause Bauer and M. Orchin), 89

Iminium carbonylmetalates
Organic syntheses via transition metal complexes, XCl[1]. Dihydropyridinyl carbene complexes by [4 + 2] annulation of alkenyl- or aryl imines to (1-alkynyl)carbene complexes of chromium and tungsten (R. Aumann, Z. Yu and R. Fröhlich), 311
Indenyl
Syntheses of indenyl lanthanide derivatives and the molecular structures of $[(C_9H_7)_2PrCl(THF)]_2$ and $[(C_9H_7)_3La(THF)]$ (Q. Shen, M. Qi, S. Song, L. Zhang and Y. Lin), 95
Indenyl ligand
Crystal structure, conformational diversity and solution NMR spectroscopy of four tris(indenyl)lanthanoid(III)tetrahydrofuran adducts: $[Ln(C_9H_7)_3 \cdot THF]$ (Ln = La, Pr, Nd, Sm) (J. Guan, Q. Shen and R.D. Fischer), 203
Indium
High γ-selectivity in the coupling of penta-2,4-dienyl- and pent-2-en-4-ynylindium reagents with aldehydes (T. Hirashita, S. Inoue, H. Yamamura, M. Kawai and S. Araki), 305
Iron
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55
Synthesis of a new iron tricarbonyl (η^4)-α-pyrone complex by reaction of iron vinyldiketone complexes with methyllithium under a CO atmosphere (C. Alvarez-Toledano, S. Hernández-Ortega, S. Bernès, R. Gutiérrez-Pérez and O. García-Mellado), 49
Iron complexes
Tripod-Liganden mit Cyclopentadienyl-Donorgruppe: Synthese und Reaktivität von Komplexen des Typs $CH_3C(CH_2\text{-}\eta^5\text{-}C_5H_4)(CH_2PR_2)(CH_2PR'_2)FeCl$ (B. Antelmann, G. Huttner, J. Vogelgesang, O. Walter und U. Winterhalter), 139
Isomerization
Products from the photoreaction of $(Me_3P)(OC)_4OsW(CO)_5$ with CCl_4; synthesis and isomerization of $Os(CO)_3(PMe_3)Cl_2$ (J.L. Male, F.W.B. Einstein, W.K. Leong, R.K. Pomeroy and D.R. Tyler), 105

Lanthanides
Synthesis, characterisation and reactions of 1,3-bis(trimethylsilyl)-1-aza-allyl-lanthanide complexes; X-ray structures of $[Sm(LL')_2I(thf)]$, $[Yb(LL')_2]$ and $[RN{=}C(Bu^t)CH(R)]_2$ (thf = tetrahydrofuran, LL' = η^3-N(R)C(Bu^t)CHR, R=SiMe$_3$) (P.B. Hitchcock, M.F. Lappert and S. Tian), 1

Lanthanoid complexes
Crystal structure, conformational diversity and solution NMR spectroscopy of four tris(indenyl)lanthanoid(III)tetrahydrofuran adducts: [Ln(C_9H_7)$_3$ · THF] (Ln = La, Pr, Nd, Sm) (J. Guan, Q. Shen and R.D. Fischer), 203
Lanthanum
Syntheses of indenyl lanthanide derivatives and the molecular structures of [(C_9H_7)$_2$PrCl(THF)]$_2$ and [(C_9H_7)$_3$La(THF)] (Q. Shen, M. Qi, S. Song, L. Zhang and Y. Lin), 95
Ligands
Synthesis and reactivity of new palladium alkyl complexes containing PMe_3 ligands: Insertion reactions and formation of bis(pyrazolyl)borate derivatives (E. Gutiérrez, M.C. Nicasio, M. Paneque, C. Ruiz and V. Salazar), 167
Lithium amide
Thermal decomposition of [$Me_3SiNCH_2CH_2NSiMe_3$] · Li_2(THF)$_2$ to [LiN(SiMe3)$_2$ · THF]$_2$ via a 1,4-trimethylsilyl shift (H. Mack, G. Frenzen, M. Bendikov and M.S. Eisen), 39
Lithium amide–alkyllithium complexes
Ab initio theoretical study of 3-aminopyrrolidines lithium amides as chiral ligands for butyllithium (C. Fressigné, A. Corruble, J.-Y. Valnot, J. Maddaluno and C. Giessner-Prettre), 81
Lithium amides conformation
Ab initio theoretical study of 3-aminopyrrolidines lithium amides as chiral ligands for butyllithium (C. Fressigné, A. Corruble, J.-Y. Valnot, J. Maddaluno and C. Giessner-Prettre), 81
Lithium perchlorate
The action of lithium perchlorate in ether on (allyl propargyl ether) hexacarbonyldicobalt complexes (P.L. Pauson and M.D. Spicer), 199

Manganese–carbon metallocarboxylate complex
Conversion of a manganese–carbon-bonded complex to a manganese–oxygen-bonded complex, some reactions of manganese carbonato complexes (G.Q. Li, R.M. Burns, S.K. Mandal, J. Krause Bauer and M. Orchin), 89
Manganese–oxygen bridging carbonato complex
Conversion of a manganese–carbon-bonded complex to a manganese–oxygen-bonded complex, some reactions of manganese carbonato complexes (G.Q. Li, R.M. Burns, S.K. Mandal, J. Krause Bauer and M. Orchin), 89
Manganese phosphine complexes
Conversion of a manganese–carbon-bonded complex to a manganese–oxygen-bonded complex, some reactions of manganese carbonato complexes (G.Q. Li, R.M. Burns, S.K. Mandal, J. Krause Bauer and M. Orchin), 89
Mer-cis- to *fac*-isomerization
Products from the photoreaction of (Me_3P)(OC)$_4$OsW(CO)$_5$ with CCl_4; synthesis and isomerization of Os(CO)$_3$(PMe_3)Cl_2 (J.L. Male, F.W.B. Einstein, W.K. Leong, R.K. Pomeroy and D.R. Tyler), 105
Metallocarbaborane
Proton sponge as a carbon nucleophile, addition to a putative carbocation linked to a dicarbacobaltaborane cage (F.S. McQuillan, T.A. Hamor, R. Tanna, P.R. Ashton, M.S. Tolley and C.J. Jones), 233
Metallocene
A molecular structure of mixed valence biruthenocenium ($Ru^{II}Ru^{IV}$) salts [Ru^{II}Cp($C_5H_4C_5H_4$)CpRu^{IV}L]$^{2+}$(BF_4^-)$_2$ (L = $NCCH_3$, $N(CH)_4N$) (M. Watanabe, I. Motoyama, T. Takayama and M. Sato), 13
Metallocene dichlorides bearing acenaphthyl substituted cyclopentadienyl rings: preparation and polymerization behavior (T. Repo, G. Jany, K. Hakala, M. Klinga, M. Polamo, M. Leskelä and B. Rieger), 177
Methyltrioxorhenium
Multiple bonds between transition metals and main-group elements. Part 168. Methyltrioxorhenium/Lewisbase catalysts in olefin epoxidation (W.A. Herrmann, H. Ding, R.M. Kratzer, F.E. Kühn, J.J. Haider and R.W. Fischer), 319
Mixed-valence
A molecular structure of mixed valence biruthenocenium ($Ru^{II}Ru^{IV}$) salts [Ru^{II}Cp($C_5H_4C_5H_4$)CpRu^{IV}L]$^{2+}$(BF_4^-)$_2$ (L = $NCCH_3$, $N(CH)_4N$) (M. Watanabe, I. Motoyama, T. Takayama and M. Sato), 13
Mo complex
Synthesis of polydiphenylphosphite derivatives of [60]fullerene and their reactions with metal complexes (M. Iglesias and A. Santos), 213

N-((*E*)-1-Methyl-2,4-pentadienyl)aniline
Hydrocarbon bridged metal complexes: XLII. Addition of aniline tricarbonyl chromium complexes to the dienyl ligands of [(η^5-$H_3CC_5H_5CH_3$)Fe(CO)$_3$]$^+$ and [(η^5-$C_5H_6CH_3$)Fe(CO)$_3$]$^+$ (H.-J. Bentele, K. Sünkel and W. Beck), 245
N-Methyl-*N*-((2*E*,4*E*)-1-methyl-2,4-hexadienyl)aniline
Hydrocarbon bridged metal complexes: XLII. Addition of aniline tricarbonyl chromium complexes to the dienyl ligands of [(η^5-$H_3CC_5H_5CH_3$)Fe(CO)$_3$]$^+$ and [(η^5-$C_5H_6CH_3$)Fe(CO)$_3$]$^+$ (H.-J. Bentele, K. Sünkel and W. Beck), 245
N-fuctionalized cyclopentadienyl
Chirale Titan- und Zirkoniumkomplexe mit dem 1-(8-Chinolyl)-2,3-dimethylcyclopentadienyl-Liganden (M. Enders, R. Rudolph und H. Pritzkow), 251
NMR spectroscopy
Crystallographic studies of {η^3-1,3-dimethylallyl}{2-[2′-(diphenylphosphino)phenyl]oxazoline-P,N} palladium(II) hexafluorophosphates complexes complemented by ^{1}H NMR investigations (S. Liu, J.F.K. Müller, M. Neuburger, S. Schaffner and M. Zehnder), 283
NMR studies
Synthesis and detailed NMR study of tricarbonylrhenium(I) and trimethylplatinum(IV) halide complexes of 2-methylthiomethyl-4-(S)-methyl-1,3-oxazoline (L). X-ray crystal structure of *fac*-[ReBr(CO)$_3$L] (P.J. Heard and D.A. Tocher), 295
Nonlinear optics
Organometallic complexes for nonlinear optics. X. Molecular quadratic and cubic hyperpolarizabilities of systematically varied (cyclopentadienyl)bis(phosphine)ruthenium σ-arylacetylides: X-ray crystal structure of Ru((*E*)-4,4′-C ≡ CC_6H_4CH=$CHC_6H_4NO_2$)(PPh_3)$_2$(η-C_5H_5) (I.R. Whittall, M.P. Cifuentes, M.G. Humphrey, B. Luther-Davies, M. Samoc, S. Houbrechts, A. Persoons, G.A. Heath and D.C.R. Hockless), 127

Olefins
Multiple bonds between transition metals and main-group elements. Part 168. Methyltrioxorhenium/Lewisbase catalysts in olefin epoxidation (W.A. Herrmann, H. Ding, R.M. Kratzer, F.E. Kühn, J.J. Haider and R.W. Fischer), 319
Optically active clusters
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55
Organolanthanide
Systematic studies on the reactions of lanthanide trichlorides with Na[1,3-bis(trimethylsilyl)cyclopentadienyl]. Crystal structures of [1,3-(Me_3Si)$_2$$C_5H_3$]$_3$Ln (Ln = La, Nd, Gd, Dy) (Z. Xie, K. Chui, Z. Liu, F. Xue, Z. Zhang, T.C.W. Mak and J. Sun), 239

Organolanthanide complexes
Cyclooctatetraenyl complexes of the early transition metals and lanthanides. IX. (Cyclooctatetraenyl)lanthanide diazadiene complexes (P. Poremba and F.T. Edelmann), 101
Organometallic chemistry
Synthesis and reactivity of new palladium alkyl complexes containing PMe_3 ligands: Insertion reactions and formation of bis (pyrazolyl)borate derivatives (E. Gutiérrez, M.C. Nicasio, M. Paneque, C. Ruiz and V. Salazar), 167
Orthometallated
Synthesis and characterization of cyclometallated palladium(II) dithiolate complexes of the type [Pd(E⌢C)(S⌢S)] (S. Narayan, V.K. Jain and R.J. Butcher), 73
Oxidation
The first oxygen-bridged diorganoarsenic(V) compound: the crystal structure of $AsMe_2(S)OAs(S)Me_2$ (L. Silaghi-Dumitrescu, S. Pascu, I. Silaghi-Dumitrescu, I. Haiduc, M.N. Gibbons and D.B. Sowerby), 187
Oxidative-addition of CCl_4
Products from the photoreaction of $(Me_3P)(OC)_4OsW(CO)_5$ with CCl_4; synthesis and isomerization of $Os(CO)_3(PMe_3)Cl_2$ (J.L. Male, F.W.B. Einstein, W.K. Leong, R.K. Pomeroy and D.R. Tyler), 105

Palladium
Crystallographic studies of {η^3-1,3-dimethylallyl}{2-[2′-(diphenylphosphino)phenyl]oxazoline-P,N} palladium(II) hexafluorophosphates complexes complemented by ^{1}H NMR investigations (S. Liu, J.F.K. Müller, M. Neuburger, S. Schaffner and M. Zehnder), 283
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55
Synthesis and characterization of cyclometallated palladium(II) dithiolate complexes of the type [Pd(E⌢C)(S⌢S)] (S. Narayan, V.K. Jain and R.J. Butcher), 73
Palladium alkyl complexes
Synthesis and reactivity of new palladium alkyl complexes containing PMe_3 ligands: Insertion reactions and formation of bis (pyrazolyl)borate derivatives (E. Gutiérrez, M.C. Nicasio, M. Paneque, C. Ruiz and V. Salazar), 167
Pd–C σ bonds
Synthesis and reactivity of new palladium alkyl complexes containing PMe_3 ligands: Insertion reactions and formation of bis (pyrazolyl)borate derivatives (E. Gutiérrez, M.C. Nicasio, M. Paneque, C. Ruiz and V. Salazar), 167
Penta-2,4-dienyl system
High γ-selectivity in the coupling of penta-2,4-dienyl- and pent-2-en-4-ynylindium reagents with aldehydes (T. Hirashita, S. Inoue, H. Yamamura, M. Kawai and S. Araki), 305
Pentanuclear heterotrimetallic clusters
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55
Pent-2-en-4-ynyl system
High γ-selectivity in the coupling of penta-2,4-dienyl- and pent-2-en-4-ynylindium reagents with aldehydes (T. Hirashita, S. Inoue, H. Yamamura, M. Kawai and S. Araki), 305
Phenylazophenyl
Observations on the synthesis and chemistry of a complete series of phenylazophenyl(C,*N*′)tellurium(II) halides (fluoride, chloride, bromide and iodide) (Z. Majeed, W.R. McWhinnie and T.A. Hamor), 257
Phosphine
The interaction of [Cp*RuCl(dippe)] and [CpRuCl(dippe)] with alkynols: hydroxyvinylidene, allenylidene and related derivatives (dippe = 1,2-bis(diisopropylphosphino)ethane) (I. De los Ríos, M. Jiménez Tenorio, M.C. Puerta and P. Valerga), 221
Phosphinooxazolines
Crystallographic studies of {η^3-1,3-dimethylallyl}{2-[2′-(diphenylphosphino)phenyl]oxazoline-P,N} palladium(II) hexafluorophosphates complexes complemented by ^{1}H NMR investigations (S. Liu, J.F.K. Müller, M. Neuburger, S. Schaffner and M. Zehnder), 283
Photochemistry
Products from the photoreaction of $(Me_3P)(OC)_4OsW(CO)_5$ with CCl_4; synthesis and isomerization of $Os(CO)_3(PMe_3)Cl_2$ (J.L. Male, F.W.B. Einstein, W.K. Leong, R.K. Pomeroy and D.R. Tyler), 105
Polyethyleneimine
Thermal decomposition of $[Me_3SiNCH_2CH_2NSiMe_3] \cdot Li_2(THF)_2$ to $[LiN(SiMe3)_2 \cdot THF]_2$ via a 1,4-trimethylsilyl shift (H. Mack, G. Frenzen, M. Bendikov and M.S. Eisen), 39
Polymerization
Metallocene dichlorides bearing acenaphthyl substituted cyclopentadienyl rings: preparation and polymerization behavior (T. Repo, G. Jany, K. Hakala, M. Klinga, M. Polamo, M. Leskelä and B. Rieger), 177
Praseodymium
Syntheses of indenyl lanthanide derivatives and the molecular structures of $[(C_9H_7)_2PrCl(THF)]_2$ and $[(C_9H_7)_3La(THF)]$ (Q. Shen, M. Qi, S. Song, L. Zhang and Y. Lin), 95
Propene
Metallocene dichlorides bearing acenaphthyl substituted cyclopentadienyl rings: preparation and polymerization behavior (T. Repo, G. Jany, K. Hakala, M. Klinga, M. Polamo, M. Leskelä and B. Rieger), 177
Proton sponge
Proton sponge as a carbon nucleophile, addition to a putative carbocation linked to a dicarbacobaltaborane cage (F.S. McQuillan, T.A. Hamor, R. Tanna, P.R. Ashton, M.S. Tolley and C.J. Jones), 233
Pyridine
Multiple bonds between transition metals and main-group elements. Part 168. Methyltrioxorhenium/Lewisbase catalysts in olefin epoxidation (W.A. Herrmann, H. Ding, R.M. Kratzer, F.E. Kühn, J.J. Haider and R.W. Fischer), 319

Radiochromatographic method
Radiochemical study of the reactions between the methyl cation and hexamethyldisilazane (T.A. Kochina, D.V. Vrazhnov and I.S. Ignatyev), 45
Rearrangements
The action of lithium perchlorate in ether on (allyl propargyl ether) hexacarbonyldicobalt complexes (P.L. Pauson and M.D. Spicer), 199
Regioselectivity
High γ-selectivity in the coupling of penta-2,4-dienyl- and pent-2-en-4-ynylindium reagents with aldehydes (T. Hirashita, S. Inoue, H. Yamamura, M. Kawai and S. Araki), 305
Rh complexes
Synthesis of polydiphenylphosphite derivatives of [60]fullerene and their reactions with metal complexes (M. Iglesias and A. Santos), 213
Rhodium
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55

Ru complexes
Synthesis of polydiphenylphosphite derivatives of [60]fullerene and their reactions with metal complexes (M. Iglesias and A. Santos), 213
Ruthenium
Carbon–carbon coupling reactions on triruthenium clusters: synthesis and structure of $Ru_3(CO)_9[\mu_3-\eta^3$-PhCCCC(H)Ph][μ_2-NS(O)MePh] and $Ru_3(\mu_2$-CO)(CO)$_7[\mu_3-\eta^3$-PhCCCC(H)Ph][μ_3-NS(O)MePh] (V. Ferrand, C. Gambs, N. Derrien, C. Bolm, H. Stoeckli-Evans and G. Süss-Fink), 275
Organometallic complexes for nonlinear optics. X. Molecular quadratic and cubic hyperpolarizabilities of systematically varied (cyclopentadienyl)bis(phosphine)ruthenium σ-arylacetylides: X-ray crystal structure of Ru((*E*)-4,4′-C ≡ $CC_6H_4CH{=}CHC_6H_4NO_2$)$(PPh_3)_2(\eta$-$C_5H_5)$ (I.R. Whittall, M.P. Cifuentes, M.G. Humphrey, B. Luther-Davies, M. Samoc, S. Houbrechts, A. Persoons, G.A. Heath and D.C.R. Hockless), 127
The interaction of [Cp* RuCl(dippe)] and [CpRuCl(dippe)] with alkynols: hydroxyvinylidene, allenylidene and related derivatives (dippe = 1,2-bis(diisopropylphosphino)ethane) (I. De los Ríos, M. Jiménez Tenorio, M.C. Puerta and P. Valerga), 221
Triruthenium clusters containing vinyl ligands: synthesis and structure of $Ru_3(\mu_2$-CO$)_2$(CO$)_6[\mu_3$-NS(O)MePh]$(\mu_2-\eta^1,\eta^2$-PhCH$_2$C=CH$_2$), $Ru_3(\mu_2$-CO)(CO)$_7[\mu_3$-NS(O)MePh]$(\mu_3-\eta^1,\eta^2$-Pr^{n}C=CHPr^n), $Ru_3(\mu_2$-CO)(CO)$_7[\mu_3$-NS(O)MePh]$(\mu_3-\eta^1,\eta^2$-PhC=CHBu^n), and $(\mu_2$-H)Ru_3(CO$)_6(\mu_2-\eta^1,\eta^2$-PhC=CHPh)$(\mu_3-\eta^1,\eta^2$-PhC≡CPh) [$\mu_3-\eta^1,\eta^2$-NS(O)Me(C$_6$H$_4$)] (V. Ferrand, K. Merzweiler, G. Rheinwald, H. Stoeckli-Evans and G. Süss-Fink), 263
Ruthenocene
A molecular structure of mixed valence biruthenocenium ($Ru^{II}Ru^{IV}$) salts $[Ru^{II}Cp(C_5H_4C_5H_4)CpRu^{IV}L]^{2+}(BF_4^-)_2$ (L = NCCH$_3$, N(CH)$_4$N) (M. Watanabe, I. Motoyama, T. Takayama and M. Sato), 13

Samarium
Cyclooctatetraenyl complexes of the early transition metals and lanthanides. IX. (Cyclooctatetraenyl)lanthanide diazadiene complexes (P. Poremba and F.T. Edelmann), 101
Silylium groups
Radiochemical study of the reactions between the methyl cation and hexamethyldisilazane (T.A. Kochina, D.V. Vrazhnov and I.S. Ignatyev), 45
Solution NMR (^{1}H, ^{139}La)
Crystal structure, conformational diversity and solution NMR spectroscopy of four tris(indenyl)lanthanoid(III)tetrahydrofuran adducts: [Ln$(C_9H_7)_3 \cdot$ THF] (Ln = La, Pr, Nd, Sm) (J. Guan, Q. Shen and R.D. Fischer), 203
Susceptibility
Organometallic complexes for nonlinear optics. X. Molecular quadratic and cubic hyperpolarizabilities of systematically varied (cyclopentadienyl)bis(phosphine)ruthenium σ-arylacetylides: X-ray crystal structure of Ru((*E*)-4,4′-C ≡ $CC_6H_4CH{=}CHC_6H_4NO_2$)$(PPh_3)_2(\eta$-$C_5H_5)$ (I.R. Whittall, M.P. Cifuentes, M.G. Humphrey, B. Luther-Davies, M. Samoc, S. Houbrechts, A. Persoons, G.A. Heath and D.C.R. Hockless), 127
Synthesis
Syntheses of indenyl lanthanide derivatives and the molecular structures of $[(C_9H_7)_2PrCl(THF)]_2$ and $[(C_9H_7)_3La(THF)]$ (Q. Shen, M. Qi, S. Song, L. Zhang and Y. Lin), 95
Synthesis and characterization of a series of aminogallanes, $[Me_2GaR]_2$. The crystal structures of $[Me_2GaN(CH_2Ph)_2]_2$ and $[Me_2GaN(CH_2CH_2)_2NMe]_2$ (S.J. Schauer, C.H. Lake, C.L. Watkins, L.K. Krannich and D.H. Powell), 31
Synthesis and crystal structures of the distorted pentagonal bipyramidal seven-coordinate acetylacetonate complexes [MI(acac)$(CO)_2(PEt_3)_2$] (M = Mo or W) (P.K. Baker, A.I. Clark, M.G.B. Drew, M.C. Durrant and R.L. Richards), 193

Tellurium
Observations on the synthesis and chemistry of a complete series of phenylazophenyl(C,*N′*)tellurium(II) halides (fluoride, chloride, bromide and iodide) (Z. Majeed, W.R. McWhinnie and T.A. Hamor), 257
Tetramethyldiarsinedisulfide
The first oxygen-bridged diorganoarsenic(V) compound: the crystal structure of $AsMe_2(S)OAs(S)Me_2$ (L. Silaghi-Dumitrescu, S. Pascu, I. Silaghi-Dumitrescu, I. Haiduc, M.N. Gibbons and D.B. Sowerby), 187
Thermolysis
Synthesis and characterization of a series of aminogallanes, $[Me_2GaR]_2$. The crystal structures of $[Me_2GaN(CH_2Ph)_2]_2$ and $[Me_2GaN(CH_2CH_2)_2NMe]_2$ (S.J. Schauer, C.H. Lake, C.L. Watkins, L.K. Krannich and D.H. Powell), 31
THF adducts
Crystal structure, conformational diversity and solution NMR spectroscopy of four tris(indenyl)lanthanoid(III)tetrahydrofuran adducts: [Ln$(C_9H_7)_3 \cdot$ THF] (Ln = La, Pr, Nd, Sm) (J. Guan, Q. Shen and R.D. Fischer), 203
Titanium
Chirale Titan- und Zirkoniumkomplexe mit dem 1-(8-Chinolyl)-2,3-dimethylcyclopentadienyl-Liganden (M. Enders, R. Rudolph und H. Pritzkow), 251
TMS-shift
Thermal decomposition of $[Me_3SiNCH_2CH_2NSiMe_3] \cdot Li_2(THF)_2$ to $[LiN(SiMe3)_2 \cdot THF]_2$ via a 1,4-trimethylsilyl shift (H. Mack, G. Frenzen, M. Bendikov and M.S. Eisen), 39
Trimethylsilyl
Systematic studies on the reactions of lanthanide trichlorides with Na[1,3-bis(trimethylsilyl)cyclopentadienyl]. Crystal structures of $[1,3\text{-}(Me_3Si)_2C_5H_3]_3Ln$ (Ln = La, Nd, Gd, Dy) (Z. Xie, K. Chui, Z. Liu, F. Xue, Z. Zhang, T.C.W. Mak and J. Sun), 239
Tripodal ligands
Tripod-Liganden mit Cyclopentadienyl-Donorgruppe: Synthese und Reaktivität von Komplexen des Typs $CH_3C(CH_2$-η^5-$C_5H_4)(CH_2PR_2)(CH_2PR'_2)FeCl$ (B. Antelmann, G. Huttner, J. Vogelgesang, O. Walter und U. Winterhalter), 139

Vinylidene complex
The interaction of [Cp* RuCl(dippe)] and [CpRuCl(dippe)] with alkynols: hydroxyvinylidene, allenylidene and related derivatives (dippe = 1,2-bis(diisopropylphosphino)ethane) (I. De los Ríos, M. Jiménez Tenorio, M.C. Puerta and P. Valerga), 221
Vinylketene complexes
Synthesis of a new iron tricarbonyl (η^4)-α-pyrone complex by reaction of iron vinyldiketone complexes with methyllithium under a CO atmosphere (C. Alvarez-Toledano, S. Hernández-Ortega, S. Bernès, R. Gutiérrez-Pérez and O. García-Mellado), 49
Vinyl ligands
Triruthenium clusters containing vinyl ligands: synthesis and structure of $Ru_3(\mu_2$-CO$)_2$(CO$)_6[\mu_3$-NS(O)MePh]$(\mu_2-\eta^1,\eta^2$-PhCH$_2$C=CH$_2$), $Ru_3(\mu_2$-CO)(CO)$_7[\mu_3$-NS(O)MePh]$(\mu_3-\eta^1,\eta^2$-Pr^{n}C=CHPr^n), $Ru_3(\mu_2$-CO)(CO)$_7[\mu_3$-NS(O)MePh]$(\mu_3-\eta^1,\eta^2$-PhC=CHBu^n), and $(\mu_2$-H)Ru_3(CO$)_6(\mu_2-\eta^1,\eta^2$-PhC=CHPh)$(\mu_3-\eta^1,\eta^2$-PhC≡CPh) [$\mu_3-\eta^1,\eta^2$-NS(O)Me(C$_6$H$_4$)] (V. Ferrand, K. Merzweiler, G. Rheinwald, H. Stoeckli-Evans and G. Süss-Fink), 263

'Wing-tip' butterfly structure
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55

X-ray crystal structure
Optically active pentanuclear wing-tip butterfly heterotrimetallic clusters (S.P. Gubin, T.V. Galuzina, I.F. Golovaneva, A.P. Klyagina, L.A. Polyakova, O.A. Belyakova, Ya.V. Zubavichus and Yu.L. Slovokhotov), 55
Thermal decomposition of $[Me_3SiNCH_2CH_2NSiMe_3] \cdot Li_2(THF)_2$ to $[LiN(SiMe3)_2 \cdot THF]_2$ via a 1,4-trimethylsilyl shift (H. Mack, G. Frenzen, M. Bendikov and M.S. Eisen), 39

X-ray diffraction
A molecular structure of mixed valence biruthenocenium ($Ru^{II}Ru^{IV}$) salts $[Ru^{II}Cp(C_5H_4C_5H_4)CpRu^{IV}L]^{2+}(BF_4^-)_2$ (L = $NCCH_3$, $N(CH)_4N$) (M. Watanabe, I. Motoyama, T. Takayama and M. Sato), 13
Syntheses of indenyl lanthanide derivatives and the molecular structures of $[(C_9H_7)_2PrCl(THF)]_2$ and $[(C_9H_7)_3La(THF)]$ (Q. Shen, M. Qi, S. Song, L. Zhang and Y. Lin), 95

X-ray structure
Crystallographic studies of {η^3-1,3-dimethylallyl}{2-[2′-(diphenylphosphino)phenyl]oxazoline-P,N} palladium(II) hexafluorophosphates complexes complemented by ^1H NMR investigations (S. Liu, J.F.K. Müller, M. Neuburger, S. Schaffner and M. Zehnder), 283
Organometallic complexes for nonlinear optics. X. Molecular quadratic and cubic hyperpolarizabilities of systematically varied (cyclopentadienyl)bis(phosphine)ruthenium σ-arylacetylides: X-ray crystal structure of Ru((*E*)-4,4′-C ≡ $CC_6H_4CH{=}CHC_6H_4NO_2$)$(PPh_3)_2(\eta$-$C_5H_5)$ (I.R. Whittall, M.P. Cifuentes, M.G. Humphrey, B. Luther-Davies, M. Samoc, S. Houbrechts, A. Persoons, G.A. Heath and D.C.R. Hockless), 127

Ytterbium
Cyclooctatetraenyl complexes of the early transition metals and lanthanides. IX. (Cyclooctatetraenyl)lanthanide diazadiene complexes (P. Poremba and F.T. Edelmann), 101

Zirconium
Chirale Titan- und Zirkoniumkomplexe mit dem 1-(8-Chinolyl)-2,3-dimethylcyclopentadienyl-Liganden (M. Enders, R. Rudolph und H. Pritzkow), 251
Metallocene dichlorides bearing acenaphthyl substituted cyclopentadienyl rings: preparation and polymerization behavior (T. Repo, G. Jany, K. Hakala, M. Klinga, M. Polamo, M. Leskelä and B. Rieger), 177